IN THE CLAIMS

Please amend the claims as follows:

Claims 1-16 (Cancelled).

Claim 17 (Currently Amended): An imaging device comprising at least a set of four bolometric detectors arranged side by side, wherein each of the at least four bolometric detectors is a detector comprising a receiving antenna for collecting electromagnetic waves, the receiving antenna having a load resistance,

a resistive load for converting the power from the electromagnetic waves into heating power,

a thermometric component for measuring a rise in temperature of said receiving antenna, relatively to a reference temperature, associated with the heating power, wherein

the resistive load is formed by the load resistance of the antenna, and

the thermometric component is electrically insulated from the load resistance of the antenna, and

~~according to Claim 12 and~~ the at least four bolometric detectors are arranged so that respective thermoelectric devices are mounted in parallel, wherein a first two of said at least four bolometric detectors are configured to receive TE waves and another two of said at least four bolometric detectors are configured to collect TM waves, wherein the thermoelectric components of the first two of said at least four bolometric detectors are connected for form a first parallel circuit and the thermoelectric components of the second two of said at least four bolometric detectors are connected to form a second parallel circuit,

wherein each of said at least four bolometrics detector comprises a diode placed in a vicinity of the respective thermoelectric component, wherein each diode is configured to remove all or part of parasitic signals received by the respective bolometric detector through

differential readout of signals generated by said respective bolometric detector and signals derived from said diode.

Claims 18-21 (Cancelled).